Table of flood stages during June 1937-Continued

Table of	flood stages	during June	1937-Continued
1 4000 01	Juvou orages	totte orey o terro	1001 Continued

Scloto: LaRue, Ohio	Flood	Above flood stages—dates		Crest		River and station		Above flood stages—dates		Crest	
Trivel and seation	stage	From-	То—	Stage	Date		stage	From—	То-	Stage	Date
Little Kanawha: Glenville, W. Va Scloto: LaRue, Ohio	11 10 14 16 8	21 21 22 27 27 24 4 9	22 23 25 26 27 25 6 21 12	Feet 27.8 13.9 11.5 19.3 14.8 17.2 2 8.3 9.8 14.6	22 23 23 23 27 24 5 15	Arkansas Basin—Continued Canadian: Canadian, Tex Union City, Okla Calvin, Okla Lower Mississippi Basin Big Lake Outlet: Manila, Ark WEST GULF OF MEXICO DRAINAGE Guadalupe: Gonzales, Tex Victoria, Tex Pecos: Santa Rosa, N. Mex	10	3 3 6 9 1 12 5 8 2	5 4 6 10 1 26	Feet 8. 0 7. 8 7. 3 9. 2 15. 0 12. 6	3 4 6 10 10 1 1 17, 18 8 9 2 2
Neosho: Oswego, KansNorth Canadian: Woodward, Okla Canton, Okla Yukon, Okla	5 6	10 15 4 9 13 15 4 10 15 May 31	17 4 11 13 16 4 12 18 9	20. 5 22. 6 5. 8 6. 8 5. 4 7. 0 6. 0 7. 5 8. 2 10. 0	10 16 4 11 13 16 4 11 17 6	Rio Grande: Espanola, N. Mex	7 4	(3) 26 21 21	6 27 27 21 28	5. 1 10. 1 16. 8	26 21 24
(East) Oklahoma City, Okla	"	10	26 16	11.7 15.0	19 16	3 Continued from previous month.	• Crest	occurred d	luring pr	evious n	onth.

WEATHER ON THE ATLANTIC AND PACIFIC OCEANS

(The Marine Division, I. R. TANNEHILL in charge)

NORTH ATLANTIC OCEAN, JUNE 1937

By H. C. HUNTER

Atmospheric pressure.—Over waters in the vicinity of western Europe and the British Isles pressure averaged above normal, Valencia, Ireland, showing a departure of +0.1 inch. The station at Belle Isle, Newfoundland, averaged 0.09 inch above normal, while the Gulf of Mexico had approximately normal pressure.

Most of the North Atlantic, however, averaged moderately below normal in pressure. The portions of the month notable for particularly low pressure were different as to area. The Greenland-Iceland area had low readings for the most part during the first fortnight and again during the final week; the Azores area from the 10th to 26th inclusive; and the Bermuda area, to an extent rather marked for the latitude and the season, from the 22d to the end of the month.

Table 1.—Averages, departures, and extremes of atmospheric pressure (sea level) at selected stations for the North Atlantic Ocean and its shores, June 1937

Stations	Aver- age pres- sure	Depar- ture	Highest	Date	Lowest	Date
Julianehaab, Greenland Reykjavik, Iceland Lerwick, Shetland Isles Valencia, Ireland Lisbon, Portugal Madeira Horta, Azores Belle Isle, Newfoundland Halifax, Nova Scotia Nantucket Hatteras Bernuda Turks Island Key West New Orleans	29. 83 29. 88 30. 10 30. 12 30. 11 30. 15 29. 95 29. 94 29. 90 29. 96 30. 08 30. 02 29. 99	Inch -0.0905 +.09 +.10 +.0409 +.040908050501 .00	Inches 30, 26 30, 42 30, 27 30, 48 30, 30 30, 48 30, 30 40 30, 34 30, 21 30, 25 30, 07 30, 14 30, 20	17 16 12 15 26 8 18 17 17 17, 18 5 11	Inches 29, 26 29, 18 29, 29 29, 62 29, 83 29, 97 29, 56 29, 44 29, 59 29, 91 29, 80 29, 71	2 26 28 6 10 11 13 22 22 22 29 25 29

Note.—All data based on a. m. observations only, with departures compiled from best available normals related to time of observation, except Hatteras, Key West, Nantucket, and New Orleans, which are 24-hour corrected means.

The extremes of pressure thus far reported are 30.64 and 29.03 inches. The higher mark was recorded on the American steamship City of Havre, late on the 17th, near latitude 48° N., longitude 26° W. The lower mark was noted on the Norwegian steamship Sangstad, at 8 a. m. of the 25th in about 67° N. 3° W., or approximately 350 miles to eastward of the northeastern limits of Iceland, from which locality very few vessel weather reports are received, even in Summer.

Cyclones and gales.—Scanning the series of monthly tables of ocean gales and storms, which this publication has presented since the latter part of 1924, brings to notice no other month with as few North Atlantic gales (force 8 or more) as June 1937. Three vessels encountered strong gales (force 9) and another a fresh gale (force 8), making four gales in all.

On the 4th and 5th two vessels reported strong gales about 700 miles west of Scotland. Both vessels were west-bound and their pressure readings were comparatively low for June.

During the night of the 14-15th two vessels noted respectively force 9 and force 8 when they were not far to eastward of the coast of New Jersey.

to eastward of the coast of New Jersey.

The table includes three instances of force 6 winds that were experienced in the south-central portion of the Caribbean Sea.

Fog.—June is expected to be a foggy month for much of the North Atlantic and during this June there was more fog than the average amount from the coasts of the North Atlantic States and the Maritime Provinces eastward to the Grand Banks and a short distance beyond; also a considerable number of reports of fog have come from squares north of 50° and near or somewhat to eastward of midocean. An area northwest of the Azores and another immediately to westward of Ireland and France reported less fog than is expected, but an area just northeast of the Azores reported more than the normal occurrence. In general fog occurred widely over the eastern North Atlantic about the 12th to 15th and during the final 4 days of the month.

The 5°-square adjacent to Maine, western Nova Scotia, and Cape Cod, namely 40° to 45° N., 65° to 70° W., led all other North Atlantic squares, with 23 days of fog. The period just preceding the middle of the month was the period with least fog in this area.

Fog was noted on about half the days of the month off the coast of New Jersey, but to southward reports were few, and south of the latitude of Hatteras there was practically no fog. Between the 15th and 65th meridians, south of 40° north latitude, no fog has been reported.

Several accidents due to fog have come to our notice, but there was apparently no loss of life connected with any. On the night of the 5-6th a barge sank after a collision in Long Island Sound. On or about the 24th a steamer grounded near Halifax, N. S., but soon was refloated. The last day of June saw three fog accidents in New England waters; also it was probably this day that the Norwegian steamship Aranda, bound into the Gulf of St. Lawrence, grounded off one of the Magdalen Islands and is expected to be a total loss.

OCEAN GALES AND STORMS, JUNE 1937

Vessel	Voj	Voyage		Position at time of lowest barometer		le Time of lowest	Gale ended	Low- est ba-		Direction and force of wind	Direc- tion of wind	Direction and high-	Shifts of wind near time of low-	
¥ 65361	From	То	Latitude	Longi- tude	began June—	barometer June	June-	rom- eter	when gale began	at time of lowest ba- rometer	when gale ended	est force of wind	est barometer	
NORTH ATLANTIC OCEAN			. ,	. ,				Inches						
Georgian, Am. S. S. Toloa, Am. S. S. Kentucky, Dan. S. S. Hannah, Du. S. S. Standard, Am. S.S. Marinao, Ital. S. S.	New York Santa Marta Oslo Bremen Aruba Djidjelli	Cristobal	12 12 N. 11 36 N. 56 52 N. 58 22 N. 39 42 N. 38 10 N.	78 35 W. 74 18 W. 26 20 W. 23 43 W. 73 36 W. 72 40 W.	1 3 4 4 14 14	5p, 1 7a, 3 2p, 4 10a, 5 7p, 14 -, 15	1 3 6 5 14 15	29. 83 29. 81 29. 22 29. 17 29. 76 29. 88	SE SW SE WSW SSW	SE, 6 ENE, 6 W, SSW, 8 WSW, 9 SW, 8	SE E NW SSW W SW	SE, 6 E, 6 W, 9 S, 9 WSW, 9 SW, 8	None. SW-W. S-N. SW-W. SSW-W-SW.	
Toloa, Am. S. S	Kingston	Colon	13 25 N.	78 30 W.	17	3p, 18	18	29.80	E	Е, 6	ENE	E, 6		
NORTH PACIFIC OCEAN														
Empress of Asia, Br. S. S. Pres. Grant, Am. S. S. Tai Ping. Nor. M. S. Pres. Jefferson, Am. S. San Diego Maru, Jap. M. S.	Victoria, B. C. Yokohamado Victoria, B. C Osaka	Yokohama Victoria, B. C San Francisco. Yokohama San Francisco.	51 25 N. 388 28 N. 38 30 N. 42 10 N. 39 41 N.	143 57 W. 146 47 E. 150 00 E. 149 45 E. 150 29 E.	1 31 1 1 2 1	4p, ² 31 Mdt, 1 2a, 2 5a, 2 6a, 2	1 3 3 2 3	29. 38 29. 27 29. 10 29. 20 29. 00	SENEEEEEE.	8, 8 N, 9 SSW, 9 NNE, 10. W, 7	SW W.W WNW NW WNW.	SW, 9 NW, 10 W, 10 NNE_ 10_ W, 8	S-SSW. NE-NW. S-W. NE-N. S-W.	
San Pedro Maru, Jap. M. S.	Yokohama	Los Angeles	40 40 N.	156 30 E.	1	Noon, 2	3	29. 29	SE	sw, 7	w	SSE, 9	s-wsw.	
Thames Maru, Jap. S. S Silverpalm, Br. M. S. Nako Maru, Jap. M. S. Salawati, Du. M. S. Empress of Asia, Br. S. S. Tai Ping, Nor. M. S	Port Alice	Kobe San Francisco Los Angeles do Yokohama San Francisco	44 48 N. 42 50 N. 43 21 N. 39 16 N. 350 45 N. 43 10 N.	156 58 E. 177 12 W. 166 22 E. 175 24 E. 179 02 W. 179 00 E.	2 2 2 3 3 5	10p, 2 6a, 3 Noon, 3 3p, 3 9p, 3 2p, 6	3 2 4 4 3 6	29, 86 29, 44 29, 16 29, 78 29, 33 29, 42	E S S S ESE	NE, 8 SW, 5 SW, 9 SSW, 7 NE, 5 WNW, 9	NW SW WNW. WNW. ESE NW	NW,9 S, 8 SW, 9 SSW, 9 ESE, 8 NNW, 9	E-N-NW. SW-WSW. SSW-WSW. ESE-NE. ESE-WNW- NNW	
San Pedro Maru, Jap. M. S.	do	Los Angeles	341 33 N.	152 03 W.	10	—, 10	10	29.49	sw	S, 9	s	S, 9	s-w."	
M. S. Scottsburg, Am. S. S. Shoyo Maru, Jap. M. S. Chattanooga City, Am. S. S.	Manila Kudamatsu Hilo	do Balboa	45 46 N. 40 30 N. 17 05 N.	137 30 W.	14 15 16	Noon, 14. 10a, 15 4p, 16	17 15 16	29. 10 29. 33 29. 74	W WSW NNE	W, 9 W, 9 SSE, 7	W NW SSE	W, 9 WNW, 9 W, 8	W-WNW. WNW-S-SE.	
Scottsburg, Am. S. S. Nitro, U. S. N Iowan, Am. S. S. Silverbelle, Br. M. S	Manila San Diego Balboa Cebu	Los Angeles Los An	42 21 N. 18 00 N. 3 18 36 N. 17 55 N.	140 00 W. 104 00 W. 104 42 W. 130 28 E.	21 25 25 30	Noon, 21 11a, 25 6a, 25 4p, 30	22 25 25 4 1	29, 58 29, 63 29, 64 29, 54	SW E NW	SW, 8 E, 10. ENE, 9 NE, 12	W SE WNW. E	SW, 8 E, 10 ENE, 9 NE, 12	ENE-SSE. SE-ENE. NW-NE-SE.	

¹ Barometer uncorrected.

NORTH PACIFIC OCEAN, JUNE 1937

By WILLIS E. HURD

Atmospheric pressure.—The Aleutian Low continued in an abnormally high state of development for the month during June 1937, as in the previous May, with average center over eastern Aleutian waters, the mean pressure at Dutch Harbor being 29.73, which is 0.17 inch below the normal. The lowest barometer readings of the month were 28.90 inches, at Kodiak, on the 1st, and 28.88, read on the British steamer Talthybius, near 51° N., 174° W.,

High pressure was central in the vicinity of Midway Island, where the average barometer, 30.14 inches, was 0.09 above the normal.

In the Far East, the encroachment of the continental Low on the sea area is shown by the average barometer, 29.65 inches, at Hong Kong, and the average of 29.72 inches at Naha, in the Nansei Islands, both readings being below the normal.

Table 1.—Averages, departures, and extremes of atmospheric pressure at sea level, North Pacific Ocean, June 1937, at selected stations

Station	Aver- age pres- sure	Departure from normal	High- est	Date	Lowest	Date
Point Barrow Dutch Harbor St. Paul Kodiak Juneau Tatoosh Island San Francisco Mazatlan Honolulu Midway Island Guam Manila Hong Kong Naha Chichishima Nemuro	29. 73 29. 79 29. 81 29. 94 29. 99 29. 87 30. 05 30. 14 29. 84 29. 76 29. 65	Inch -0. 19 17 07 10 07 03 .00 +. 04 +. 01 +. 09 03 +. 01 05 03 11	Inches 30, 12 30, 32 30, 34 30, 34 30, 19 29, 96 30, 13 30, 28 29, 92 29, 83 30, 00 30, 18	9 27 27 3 3 3 24 11 12 12 27 11 10, 14, 28 10 1, 2, 10 4 29	Inches 29. 50 29. 18 29. 34 28. 90 29. 35 29. 59 29. 74 29. 95 20. 94 29. 76 29. 50 29	7 7 15, 16 17 1 18 18 16 27 25 5 2 24 28 22 17 18, 19 29 26

Note.—Data based on 1 daily observation only, except those for Juneau, Tatoosh Island, San Francisco and Honolulu, which are based on 2 observations. Departures are computed from best available normals related to time of observation.

May.

Position approximate.
July.